

MULTIPOINT AND ONE POINT BACK PRESSURE TEST FOR GAS WELL

Type Test ☒ Initial ☐ Annual ☐ Special						Test Date 3-17-86			
Company TENNECO OIL CO.				Connection					
Pool BASIN				Formation DAKOTA				Unit	
Completion Date		Total Depth 7520		Plug Back TD 7509		Elevation		Farm or Lease Name DAUM LS	
Cas. Size 7" 4 1/2"	Wt.	d	Set At 5728 7517	Perforations: From 7296 To 7467		Well No. 5M			
Tub. Size 2 3/8"	Wt.	d	Set At 7424	Perforations: From To		Unit Sec. Twp. Rye. 0 32 28 9			
Type Well - Single - Blindhead - G.G. or G.O. Multiple						Packer Set At 5630		County SAN JUAN	
Producing Thru		Reservoir Temp. °F		Mean Annual Temp. °F		Baro. Press. - P _a		State NEW MEXICO	
L	H	Gg	% CO ₂	% N ₂	% H ₂ S	Prover	Meter Run	Taps	
		.700							

FLOW DATA						TUBING DATA		CASING DATA		Duration of Flow
NO.	Prover Line Size	X	Orifice Size	Press. p.s.i.g.	Diff. h _w	Temp. °F	Press. p.s.i.g.	Temp. °F	Press. p.s.i.g.	
51							1166		620	
1.	2x6x.75						37		620	52
2.										
3.										
4.										
5.										

RATE OF FLOW CALCULATIONS							
NO.	Coefficient (24 Hour)	$\sqrt{h_w P_m}$	Pressure P _m	Flow Temp. Factor F _t	Gravity Factor F _g	Super Compress. Factor, F _{pv}	Rate of Flow Q, Mcfd
1	11		49	1.008	1.195	1.0040	652
2.							
3.							
4.							
5.							

NO.	P _r	Temp. °R	T _r	Z	Gas Liquid Hydrocarbon Ratio	A.P.I. Gravity of Liquid Hydrocarbons	Specific Gravity Separator Gas	Specific Gravity Flowing Fluid	Critical Pressure	Critical Temperature	Rate of Flow
1	.07	512	1.30	.992							
2.											
3.											
4.											
5.											

NO.	P _i	P _w	P _w ²	P _e ² - P _w ²
1		49	2401	1385283
2				
3				
4				
5				

(1) $\frac{P_e^2}{P_e^2 - P_w^2} = 1.0017$

AOF = Q $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 652$

(2) $\left[\frac{P_e^2}{P_e^2 - P_w^2} \right]^n = 1.0013$

Absolute Open Flow	652	Mcfd @ 15.025	Angle of Slope @	Slope, n .75
--------------------	-----	---------------	------------------	--------------

Remarks:

Approved By Division	Conducted By:	Calculated By:	Checked By:
----------------------	---------------	----------------	-------------